

# JOURNAL OF CELLULAR PHYSIOLOGY

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# Advances in the Pathophysiology, Diagnosis, and Treatment of Sickle Cell Disease

Roland B. Scott, Editor

Increased biomedical investigations which have occurred during the last decade have resulted in a number of advances utilized in the management of sickle cell disease. Despite the lack of a cure, the survival and quality of life for patients with the disease is being extended and enhanced through programs of early diagnosis, early detection, and prompt treatment of infections and complications. **Advances in the Pathophysiology, Diagnosis, and Treatment of Sickle Cell Disease** presents the current research concerning the applications of new knowledge to the treatment and management of the common sickle cell syndromes, namely, homozygous sickle cell disease, sickle cell-hemoglobin C disease, and sickle cell-beta thalassemia.

The development of an effective treatment for sickle cell disease is the number one priority of researchers and the best chance for accomplishing this lies in developing a complete understanding of the pathogenic sequence of the disease. **Advances in the Pathophysiology, Diagnosis, and Treatment of Sickle Cell Disease** is an in depth look at the latest research, as well as the various methods currently utilized in the treatment of sickle cell disease. Topics of interest include comparative pathophysiology in sickle cell disease and the thalassemias, amniocentesis and fetoscopy, pneumococcal vaccine: update and evaluation, the membrane lesion and its treatment in sickle cell anemia, autotransfusion: a management option for alloimmunized sickle cell patients, and approaches to the evaluation of the genetic counselor.

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Roland B. Scott, Editor

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